Product datasheet

HCI-T 150 W/942 NDL PB

POWERBALL HCI-T | Metal halide lamps with ceramic technology for enclosed luminaires



Areas of application

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

Product benefits

- Very high efficiency
- Good to excellent color rendering
- Very good color stability
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

Product features

- POWERBALL ceramic technology
- Light colors: warm white (830 WDL), neutral white (942 NDL)
- Average lifetime: 15,000 h (operation with ECG with 70…400 Hz square-wave current)
- Average lifetime: 12,000 h (with magnetic control gear)
- HCI-T 50 W only for operation with ECG with 70…400 Hz square-wave current



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Technical data

Electrical data

Nominal wattage	150.00 W
Rated wattage	147.00 W [1)]
Lamp current	1.85 A
PFC capacitor at 50 Hz	20 µF [2)]
Ignition voltage	3.6 kVp;5.0 kVp [3)]

1) In operation with electronic control gear with 70...400 Hz square-wave current

2) At rated voltage and cos φ ≥ 0.9

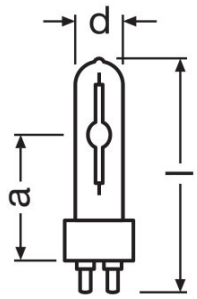
3) Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient;Maximum; this limit is for safety reasons

Photometrical data

Luminous flux	16200 lm
Luminous efficacy	110 lm/W [1)]
Color rendering index Ra	94
Color temperature	4200 K
Light color	4200
Rated LLMF at 2,000 h	0.92
Rated LLMF at 4,000 h	0.90
Rated LLMF at 6,000 h	0.87
Rated LLMF at 8,000 h	0.85
Rated LLMF at 12,000 h	0.80
UV protection	Yes

1) In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.

Dimensions & weight



Diameter	20.0 mm
Length	105.0 mm
Light center length (LCL)	56.0 mm

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Product weight	29.20 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	550 °C
Maximum permitted pinch temperature	350 °C

Lifespan

Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000 h	0.98
Rated lamp survival factor at 6,000 h	0.97
Rated lamp survival factor at 8,000 h	0.96
Rated lamp survival factor at 12,000 h	0.90
Lifespan B50	20000 h [1]
Operation mode LLMF/LSF	ECG

[1] At ECG

Additional product data

Base (standard designation)	G12
Design / version	Clear
System guarantee level	3 (2/5)
Mercury content	16.2 mg

Capabilities

Dimmable	Yes [1]
Burning position	Any
Enclosed luminaire required	Yes
Hot restart	No

[1] In combination with POWERTRONIC PTo

Certificates & standards

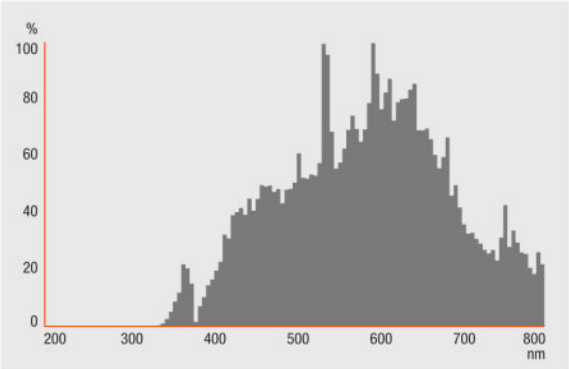
Energy efficiency class	A+
Energy consumption	162 kWh/1000h

Country specific categorizations

ILCOS	MT/UB-150/942-H/SL-G12-20/100

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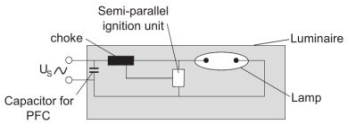
Light Distribution



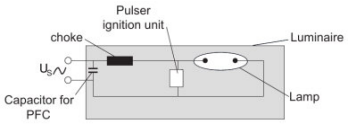
Spectral power distribution

System guarantee

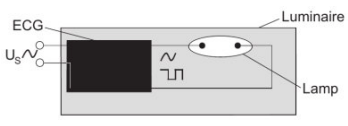
For the vast majority of our lamps we are offering an extended system guarantee in conjunction with OSRAM POWERTRONIC control gear.



Circuit diagram



Circuit diagram



Circuit diagram

Logistical Data

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Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899372399	HCI-T 150 W/942 NDL PB	Shipping carton box 12 Pieces Folding carton box	180 mm x 140 mm x 158 mm	3.98 dm^3	670.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the system guarantee and the terms and conditions of the guarantee visit

- www.osram.com/system-guarantee

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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Product name	Product name ECG	EAN
HCI-T 150 W/942 NDL PB	PTi 150/220-240 I	4008321915535
	PTi 150/220-240 S	4008321188090

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